

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (canceled)

Claim 2. (canceled)

Claim 3. (canceled)

Claim 4. (canceled)

Claim 5. (canceled).

Claim 6. (canceled)

Claim 7. (canceled)

Claim 8. (canceled)

Claim 9. (currently amended) ~~The irrigation controller of claim 7, wherein~~

In combination with an irrigation system having system components including a water supply and at least one valve for selectively directing water to at least one irrigation device in at least one irrigation zone, an irrigation controller comprising:

(a) a microprocessor and a memory for storing irrigation program data and schedule data corresponding to the time and duration of the flow of water to said at least one irrigation zone, said microprocessor for producing control signals, said microprocessor and said memory including an embedded Web server for communicating said irrigation program data and schedule data to and from HTML formats,

(b) at least one relay in communication with said microprocessor, said relay adapted for receiving said control signals from said microprocessor and for switching electrical currents to said at least one valve in response to said control signals for activation of said at least one valve, whereby said water supply and said at least one valve for selectively directing water to said at least one irrigation device may be selectively activated or deactivated,

(c) an on-board Ethernet chipset for connecting said microprocessor to a LAN, whereby a network accessing device having a Web browser connected to said LAN may be used to interactively access said embedded Web server of said irrigation controller for viewing and changing of said irrigation program and schedule data, and,

(d) at least one weather sensor connected to said microprocessor and said memory storing weather data from said at least one weather sensor so that said network accessing device may be used to view said weather data said at least one weather sensor ~~includes~~ including a rain detector which produces a stop signal when rain is detected and wherein said microprocessor is programmed to stop the operation of said irrigation system when receiving said stop signal.

Claim 10. (currently amended). The irrigation controller of claim [7] 9, further comprising;

a network accessing device connected to said LAN programmed to automatically access said program data and said weather data and change said program data in response to changes in said weather data.

Claim 11. (currently amended) The irrigation controller of claim [7] 9, wherein,

said LAN is also connected to the Internet such that a network accessing device connected to the Internet and having a Web browser may be used to interactively access said embedded Web server of said irrigation controller for viewing and changing of said irrigation program and schedule data.

Claim 12. (currently amended) The irrigation controller of claim [7] 9, wherein,

said LAN is also connected to the Internet and said irrigation control system further comprises a server adapted for communication using HTML connected to the Internet for interactively accessing said embedded Web server of said irrigation controller to automatically adjust said program data and said schedule data in response to changes in said weather data.

Claim 13. (previously amended) The irrigation controller of claim [7] 9, wherein,

said at least one relay is a triac.

Claim 14. (canceled)

Claim 15. (canceled)

Claim 16. (currently amended) The irrigation controller of claim [14] 9, further comprising:

a server adapted for communication using HTML connected to said Internet and accessible by said microprocessor via said LAN, said server receiving and storing said weather data from said at least one sensor connected to said microprocessor and maintaining additional weather data, said server programmed to compare said weather data and said additional weather data against standard seasonal weather conditions and then modify said program data of said irrigation controller in response to variance of said weather data and said additional weather data from standard seasonal weather conditions.

Claim 17. (canceled)

Claim 18. (canceled)

Claim 19. (canceled)

Claim 20. (canceled)

Claim 21 (currently amended) In combination with an irrigation system having system components including a water supply at least one valve for selectively directing water to at least one irrigation device in at least one irrigation zone, an irrigation controller comprising:

(a) a microprocessor and a memory for storing irrigation program data and schedule data corresponding to the time and duration of the flow of water to said at least one irrigation zone, said microprocessor for producing control signals, said microprocessor and said memory including an embedded Web server for communicating said irrigation program data and schedule data to and from HTML formats,

(b) at least one relay in communication with said microprocessor, said relay adapted for receiving said control signals from said microprocessor and for switching electrical currents to said at least one valve in response to said control signals for activation of said at least one valve, whereby said water supply and said at least one valve for selectively directing water to said at least one irrigation device may be selectively activated or deactivated,

(c) an on-board Ethernet chipset for connecting said microprocessor to a LAN, whereby a network accessing device having a Web browser connected to said LAN may be used to interactively access said embedded Web server of said irrigation controller for viewing and changing of said irrigation program and schedule data, and,

(d) at least one weather sensor connected to said microprocessor and said memory storing weather data from said at least one weather sensor so that said network accessing device may be used to view said weather data, the at least one weather sensor including a temperature gage which produces a stop signal when the measured temperature falls below the freezing point of water, said stop signal communicated to said microprocessor and said microprocessor is programmed to stop the operation of said irrigation system when receiving said stop signal.

Claim 22. (previously presented) The irrigation controller of claim 21, wherein,

the at least one weather sensor further includes a rain detector which produces a stop signal when rain is detected, said stop signal communicated to said microprocessor and said microprocessor is programmed to stop the operation of said irrigation system when receiving said stop signal resulting from the detection of rain.

Claim 23. (new) The irrigation controller of claim 21, further comprising;

a network accessing device connected to said LAN programmed to automatically access said program data and said weather data and change said program data in response to changes in said weather data.

Claim 24. (new) The irrigation controller of claim 21, wherein,

said LAN is also connected to the Internet such that a network accessing device connected to the Internet and having a Web browser may be used to interactively access said embedded Web server of said irrigation controller for viewing and changing of said irrigation program and schedule data.

Claim 25. (new) The irrigation controller of claim 21, wherein,

said LAN is also connected to the Internet and said irrigation control system further comprises a server adapted for communication using HTML connected to the Internet for interactively accessing said embedded Web server of said irrigation controller to automatically adjust said program data and said schedule data in response to changes in said weather data.

Claim 26. (new) The irrigation controller of claim 21, wherein,

said at least one relay is a triac.

Claim 27. (new) The irrigation controller of claim 21, further comprising:

a server adapted for communication using HTML connected to said Internet and accessible by said microprocessor via said LAN, said server receiving and storing said weather data from said at least one sensor connected to said microprocessor and maintaining additional weather data, said server programmed to compare said weather data and said additional weather data against standard seasonal weather conditions and then modify said program data of said irrigation controller in response to variance of said weather data and said additional weather data from standard seasonal weather conditions.

Claim 28. (new) In combination with an irrigation system having system components including a water supply and at least one valve for selectively directing water to at least one irrigation device in at least one irrigation zone, an irrigation controller comprising:

(a) a microprocessor and a memory for storing irrigation program data and schedule data corresponding to the time and duration of the flow of water to said at least one irrigation zone, said microprocessor for producing control signals, said microprocessor and said memory including an embedded Web server for communicating said irrigation program data and schedule data to and from HTML formats,

(b) at least one relay in communication with said microprocessor, said relay adapted for receiving said control signals from said microprocessor and for switching electrical currents to said at least one valve in response to said control signals for activation of said at least one valve, whereby said water supply and said at least one valve for selectively directing water to said at least one irrigation device may be selectively activated or deactivated,

(c) an on-board Ethernet chipset for connecting said microprocessor to a LAN, whereby a network accessing device having a Web browser connected to said LAN may be used to interactively access said embedded Web server of said irrigation controller for viewing and changing of said irrigation program and schedule data, and,

(d) a remote server in communication with said embedded webserver, said remote server programmed to change said irrigation program and schedule data of said embedded webserver.

Claim 29. (new) The irrigation controller of claim 21, wherein:

(a) said remote server gathers weather data and uses said weather data for changing said irrigation program and schedule data.